



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/041,748

01/10/2002

Koji Sasada

218049US2

3980

22850

7590

08/02/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER

IQBAL, KHAWAR

ART UNIT

PAPER NUMBER

2686

6  
DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/041,748

Applicant(s)

SASADA, KOJI

Examiner

Khawar Iqbal

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3.5.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being unpatentable by Mori (6330446).

3. Regarding claim 1 Mori teaches a location register for carrying out location registration of a mobile communication terminal, said location register comprising (figs. 9,10):

first storage means for storing information concerning a movement status of said mobile communication terminal (col. 5, lines 33-57);

first determination means for determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal stored in said first storage means (col. 5, lines 32-48, col.7, lines 13-25); and

first registration means for transmitting said period of location registration determined by said first determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in

response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information (col.6, lines 25-62, col. 7, lines 26-48, see above).

Regarding claim 3 Mori teaches a location register for carrying out location registration of a mobile communication terminal, said location register comprising: second storage means for storing information concerning a frequency of incoming call to said mobile communication terminal (col. 5, lines 33-57, col. 7, lines 4-10); second determination means for determining a period of location registration of said mobile communication terminal according to said information concerning said frequency of incoming call to said mobile communication terminal stored in said second storage means (col. 5, lines 32-48, col. 7, lines 13-25); and second registration means for transmitting said period of location registration determined by said second determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information (col. 6, lines 25-62, col. 7, lines 26-48, see above).

Regarding claim 5 Mori teaches a location register for carrying out location registration of a mobile communication terminal, said location register comprising: third storage means for storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of incoming call to said mobile communication terminal (col. 5, lines 33-57); third determination means for

determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of incoming call to said mobile communication terminal stored in said third storage means (col. 5, lines 32-48, col. 7, lines 13-25); and third registration means for transmitting said period of location registration determined by said third determination means to said mobile communication terminal, receiving location information transmitted from said mobile communication terminal in response to said transmitted period of location registration, and carrying out location registration of said mobile communication terminal according to said received location information (col. 6, lines 25-62, col. 7, lines 26-48, see above).

Regarding claims 7-9 Mori teaches a mobile communication terminal; and a location register for carrying out location registration of said mobile communication terminal; wherein said location register is the location register (col. 6, lines 25-62, col. 7, lines 26-48, see above)

Regarding claim 10 Mori teaches a location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising: a first storage step of storing information concerning a movement status of said mobile communication terminal into storage means (col. 5, lines 33-57); a first determination step of determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal stored in said first storage step; a first

Art Unit: 2686

transmission step of transmitting said period of location registration determined in said first determination step to said mobile communication terminal (col. 5, lines 32-48, col. 7, lines 13-25); a first receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said first transmission step; and a first registration step of carrying out location registration of said mobile communication terminal according to said location information received in said first receiving step (col. 6, lines 25-62, col. 7, lines 26-48).

Regarding claim 12 Mori teaches a location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising: a second storage step of storing information concerning a frequency of incoming call to said mobile communication terminal into storage means (col. 5, lines 33-57); a second determination step of determining a period of location registration of said mobile communication terminal according to said information concerning said frequency of incoming call to said mobile communication terminal stored in said storage means in said second storage step (col. 3, lines 20-30, col. 5, lines 50-57); a second transmission step of transmitting said period of location registration determined in said second determination step to said mobile communication terminal (col. 5, lines 32-48, col. 7, lines 13-25); a second receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said second transmission step; and a second

registration step of carrying out location registration of said mobile communication terminal according to said location information received in said second receiving step (col. 6, lines 25-62, col. 7, lines 26-48, see above).

Regarding claim 14 Mori teaches a location registration method for carrying out location registration of a mobile communication terminal, said location registration method comprising: a third storage step of storing information concerning a movement status of said mobile communication terminal and information concerning a frequency of incoming call to said mobile communication terminal into storage means (col. 5, lines 33-57); a third determination step of determining a period of location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal and said information concerning said frequency of incoming call to said mobile communication terminal stored in said third storage step; a third transmission step of transmitting said period of location registration determined in said third determination step to said mobile communication terminal (col. 5, lines 32-48, col. 7, lines 13-25); a third receiving step of receiving location information of said mobile communication terminal transmitted from said mobile communication terminal in response to said period of location registration transmitted in said third transmission step; and a third registration step of carrying out location registration of said mobile communication terminal according to said location information received in said third receiving step (col. 6, lines 25-62, col. 7, lines 26-48, see above).

Regarding claims 2,4,6,11,13 and 15 Mori teaches wherein said first determination means further determines an administrative time for location registration of said mobile communication terminal according to said information concerning said movement status of said mobile communication terminal stored in said first storage means; and wherein said first registration means carries out location registration of said mobile communication terminal within a range of said administrative time determined by said first determination means (col. 6, lines 25-62, col. 7, lines 26-48, see above).

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Koshino (US 6603763), Kojima (6272344), NIPPON DENKI TSUSHIN (JP 2000232673), Nakagoshi (EP 0541026A2) and Muhonen (WO 0128269A2) teach location registration period.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is 703-306-3015.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **BANKS-HAROLD, MARSHA**, can be reached at 703-305-4379.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231



Application/Control Number: 10/041,748  
Art Unit: 2686

Page 8

**or faxed to:**

**(703) 872-9314 (for Technology Center 2684 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

**Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.**

Khawar Iqbal

  
**CHARLES APPIAH**  
**PRIMARY EXAMINER**